

Peter Adam Hoehner

List of Publications by Year in descending order

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77
papers

1,174
citations

567281

15
h-index

434195

31
g-index

77
all docs

77
docs citations

77
times ranked

972
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple-antenna techniques for wireless communications - a comprehensive literature survey. IEEE Communications Surveys and Tutorials, 2009, 11, 87-105.	39.4	405
2	Superposition modulation: myths and facts. , 2011, 49, 110-116.		84
3	Optical Underwater Communication: The Potential of Using Converted Green LEDs in Coastal Waters. IEEE Journal of Oceanic Engineering, 2019, 44, 535-547.	3.8	45
4	Iterative Pilot-Layer Aided Channel Estimation with Emphasis on Interleave-Division Multiple Access Systems. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.7	42
5	Self-Aware Swarm Navigation in Autonomous Exploration Missions. Proceedings of the IEEE, 2020, 108, 1168-1195.	21.3	33
6	Multi-layer interleaved-division multiple access: theory and practice. European Transactions on Telecommunications, 2008, 19, 523-536.	1.2	31
7	Underwater Optical Wireless Communications in Swarm Robotics: A Tutorial. IEEE Communications Surveys and Tutorials, 2021, 23, 2630-2659.	39.4	31
8	Quality-Oriented Adaptive Forwarding for Wireless Relaying. IEEE Communications Letters, 2008, 12, 200-202.	4.1	25
9	Reliability-based retransmission criteria for hybrid ARQ. IEEE Transactions on Communications, 2009, 57, 2181-2184.	7.8	23
10	Array Gain Analysis in Molecular MIMO Communications. IEEE Access, 2018, 6, 61091-61102.	4.2	23
11	FSK-Based Simultaneous Wireless Information and Power Transfer in Inductively Coupled Resonant Circuits Exploiting Frequency Splitting. IEEE Access, 2019, 7, 40183-40194.	4.2	23
12	Magnetic Communication Using High-Sensitivity Magnetic Field Detectors. Sensors, 2019, 19, 3415.	3.8	23
13	On the Potential of Multi-Mode Antennas for Direction-of-Arrival Estimation. IEEE Transactions on Antennas and Propagation, 2019, 67, 3374-3386.	5.1	22
14	Helical interleaver set design for interleave-division multiplexing and related techniques. IEEE Communications Letters, 2008, 12, 843-845.	4.1	21
15	Effects and Constraints of Optical Filtering on Ambient Light Suppression in LED-Based Underwater Communications. Sensors, 2018, 18, 3710.	3.8	21
16	Distributed Direct Localization Suitable for Dense Networks. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 1209-1227.	4.7	20
17	Underwater Communication Employing High-Sensitive Magnetic Field Detectors. IEEE Access, 2020, 8, 177385-177394.	4.2	15
18	Spherical Wave Positioning Based on Curvature of Arrival by an Antenna Array. IEEE Wireless Communications Letters, 2019, 8, 504-507.	5.0	14

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19	Optical Interference Suppression Based on LCD-Filtering. Applied Sciences (Switzerland), 2019, 9, 3134.	2.5	13
20	Duality Between Coronavirus Transmission and Air-Based Macroscopic Molecular Communication. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2021, 7, 200-208.	2.1	13
21	A testbed and simulation framework for air-based molecular communication using fluorescein. , 2020, , .		13
22	Modeling Aspects of Planar Multi-Mode Antennas for Direction-of-Arrival Estimation. IEEE Sensors Journal, 2019, 19, 4585-4597.	4.7	12
23	Investigation of Multiple Fluorescent Dyes in Macroscopic Air-Based Molecular Communication. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2021, 7, 78-82.	2.1	12
24	On the performance of WLAN and Bluetooth for in-car infotainment systems. Vehicular Communications, 2017, 10, 1-12.	4.0	11
25	Experimental Characterization of Single-Color Power LEDs Used as Photodetectors. Sensors, 2020, 20, 5200.	3.8	10
26	Word Error Probability Estimation by Means of a Modified Viterbi Decoder. Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE, 2007, , .	0.0	9
27	A universal coding approach for superposition mapping. , 2010, , .		9
28	LCD-Based Optical Filtering Suitable for Non-Imaging Channel Decorrelation in VLC Applications. Journal of Lightwave Technology, 2019, 37, 5892-5898.	4.6	9
29	Single-Element Beamforming using Multi-Mode Antenna Patterns. IEEE Wireless Communications Letters, 2020, , 1-1.	5.0	9
30	Iterative semi-blind single-antenna cochannel interference cancellation and tight lower bound for joint maximum-likelihood sequence estimation. Signal Processing, 2004, 84, 1991-2004.	3.7	8
31	Channel Coding and Receiver Design for Simultaneous Wireline Information and Power Transfer. IEEE Open Journal of Power Electronics, 2021, 2, 545-558.	5.7	8
32	Genetic Optimization of Liquid Crystal Matrix Based Interference Suppression for VLC MIMO Transmissions. IEEE Photonics Journal, 2022, 14, 1-5.	2.0	8
33	Constrained Intensity Superposition: A Hardware-Friendly Modulation Method. Journal of Lightwave Technology, 2018, 36, 658-665.	4.6	7
34	The soft-output principleâ€™reminiscences and new developments. European Transactions on Telecommunications, 2007, 18, 829-835.	1.2	6
35	Joint channel and parameter estimation for combined communication and navigation using particle swarm optimization. , 2010, , .		6
36	Bounds on mutual information for simple codes using information combining. Annales Des Telecommunications/Annals of Telecommunications, 2005, 60, 184-214.	2.5	5

#	ARTICLE	IF	CITATIONS
37	Analysis and design of interleaver sets for interleave-division multiplexing and related techniques. , 2008, , .		5
38	Hybrid Communication and Localization Underwater Network Nodes based on Magnetic Induction and Visible Light for AUV Support. , 2020, , .		5
39	EXIT Chart Analysis of Higher Order Modulation Schemes in Molecular Communications. , 2019, , .		5
40	Design of macroscopic air-based molecular communication concept using fluorescein. , 2020, , .		5
41	Simultaneous Localization and Calibration for Cooperative Radio Navigation. IEEE Transactions on Wireless Communications, 2022, 21, 6195-6210.	9.2	5
42	Bayesian In-Situ Calibration of Multiport Antennas for DoA Estimation: Theory and Measurements. IEEE Access, 2022, 10, 37967-37983.	4.2	5
43	A Note on Discrete-Time Triply-Selective MIMO Rayleigh Fading Channel Models. IEEE Transactions on Wireless Communications, 2008, 7, 837-837.	9.2	4
44	Performance limits of channel parameter estimation for joint communication and positioning. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.7	4
45	Semi-blind channel estimation for joint communication and positioning. , 2013, , .		4
46	Symbol detection based on Voronoi surfaces with emphasis on superposition modulation. Digital Communications and Networks, 2017, 3, 141-149.	5.0	4
47	Application of OFDM in Diffusion-Based Molecular Communication. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2017, 3, 254-258.	2.1	4
48	Multi-Mode Antenna Enabled Direction-of-Arrival Estimation for Swarm Navigation. , 2019, , .		4
49	Joint Navigation & Communication based on Interleave-Division Multiple Access. , 2007, , 97-106.		4
50	Predistortion and nonlinear detection for OFDM signals in the presence of nonlinear high power amplification. European Transactions on Telecommunications, 2007, 18, 411-418.	1.2	3
51	Superposition modulation with reliability-based hybrid detection. , 2010, , .		3
52	CutFM sonar signal design. Applied Acoustics, 2015, 90, 95-110.	3.3	3
53	Capacity-Increasing 3D Spatial Demultiplexer Design for Optical Wireless MIMO Transmission. , 2017, , .		3
54	Joint Precoding and Power Control for EIRP-Limited MIMO Systems. IEEE Transactions on Wireless Communications, 2018, 17, 1727-1737.	9.2	3

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55	Multi-Resonant Frequency Shift Keying: A Novel and Efficient Modulation Scheme for Magnetic Communication. IEEE Access, 2021, 9, 129431-129442.	4.2	3
56	Routing Metrics Based on Soft-Output Decoding. Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE, 2007, , .	0.0	2
57	Fair user selection for zero-forcing precoding in multi-user MISO systems. , 2009, , .		2
58	Joint communication and positioning based on soft channel parameter estimation. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	2.4	2
59	Influence of oversampling on channel parameter estimation for joint communication and positioning. , 2011, , .		2
60	Superposition modulation with irregular convolutional coding. , 2012, , .		2
61	Parametric direction-of-arrival estimation for multi-mode antennas. , 2017, , .		2
62	Piecewise linear detection for direct superposition modulation. Digital Communications and Networks, 2018, 4, 98-105.	5.0	2
63	Fundamental Limits for Joint Relative Position and Orientation Estimation with Generic Antennas. , 2018, , .		2
64	Visible Light Tricolor LED-to-Camera Data Transmission Suitable for Internet-of-Things and Sensor Applications. , 2018, , .		2
65	Manifold Optimization Based Beamforming for DoA and DoD Estimation with a Single Multi-Mode Antenna. , 2021, , .		2
66	Liquid Crystal Display Based Angle-of-Arrival Estimation of a Single Light Source. IEEE Photonics Journal, 2022, 14, 1-12.	2.0	2
67	Special issue on IDMA and related techniques. European Transactions on Telecommunications, 2008, 19, 497-498.	1.2	1
68	Channel Coding for IDM: High-Rate Convolutional Code Concatenated with Irregular Repetition Code. , 2011, , .		1
69	On the Combining of Correlated Random Measures with Application to Graph-Based Receivers. IEEE Communications Letters, 2012, 16, 1996-1999.	4.1	1
70	On the Performance of High-Rate LDPC Codes with Low-Resolution Analog-to-Digital Conversion. , 2017, , .		1
71	In-Field Calibration of a Multi-Mode Antenna for DoA Estimation. , 2021, , .		1
72	Application of MIMO Techniques in Macroscopic Air-based Molecular Communication. , 2021, , .		1

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73	Simultaneous Model and Parameter Estimation for Joint Communication and Positioning. IEEE Access, 2021, 9, 2934-2949.	4.2	1
74	EXIT-Chart-Aided Code Matching in Molecular Communications. , 2018, , .		0
75	Optical Multiple-Input Multiple-Output (MIMO) Techniques. , 2019, , 133-154.		0
76	Channel Modeling and SNR Enhancement for Coil to Magnetic Field Sensor Underwater Communication. , 2020, , .		0
77	Simultaneous Localization and Antenna Calibration. , 2022, , .		0